Welcome to the *SPAWAR*/Industry Executive Network

26 September 2005
Admiral Kidd Conference Center

Today's Agenda

- Welcoming Remarks   Mr. Jim Lasswell /
                                                                  RADM G. Wagner, USN(ret)

- Opening thoughts -   RADM Slaght, USN
  Single Provider Concept

- Headquarters perspective   Mr. Rod Smith

- PEO C4I & Space   Mr. Andrew Cox
  and Code 04 Alignment

- PEO Space Systems Update   Mr. Bryan Scurry

- FORCEnet Update   Mr. Tom Higbee

- Contracting Update   Mr. Tim Dowd

- Open Q & A   All

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- **Lead Navy in delivering FORCEnet**
  - ➢ **Focus on Acquisition and Readiness**
  - ➢ **Improve VS/PM outreach in developing technical guidance and program assessment**
  - ➢ **Leveraging the Chief Technology Office**
  - ➢ **Taking Installation Processes to a higher level**
- **Refresh, shape, and develop our workforce**
  - ➢ **Human Capital Strategy**
  - ➢ **NSPS Transition Preparations – Spiral 1.3, Oct 06**
  - ➢ **Enterprise Alignment, Anticipating BRAC approval**
- **Increase our effective use of acquisition processes and business methods**
  - ➢ **Lead Systems Integrator**
  - ➢ **Increasing utilization of SEAPORT-E**
  - ➢ **ERP**
- **Foster a culture of productivity – Net Effect**
  - ➢ **Move out on Lean Six Sigma**
  - ➢ **Measure Progress through BSC**
  - ➢ **Single Provider Concept**

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Naval Space – A Rich History

Naval History in Space

- U.S. Naval Observatory: 1830
- NRL: Rocket development: Oct 1945
- NRL: Launched V-2 rockets in 1946
- First VIKING launched 1949
- NRL: launched VANGUARD Mar 1958
- GRAB: First reconnaissance satellite July 1959
- Navy part of original NRO in 1962
- Developed TRANSIT, NAVSAT, GPS navigation satellites (1960's -1970's)
- NRL: 1st Tactical Broadcasts from Space (TADIX-B)
- Established UHF SATCOM program in 1970's: FLTSATCOM; LEASAT; UFO
- NRL: Clementine – on orbit mapping Jan 1994
- Continuous participant in NASA's Astronaut Program/manned space flight

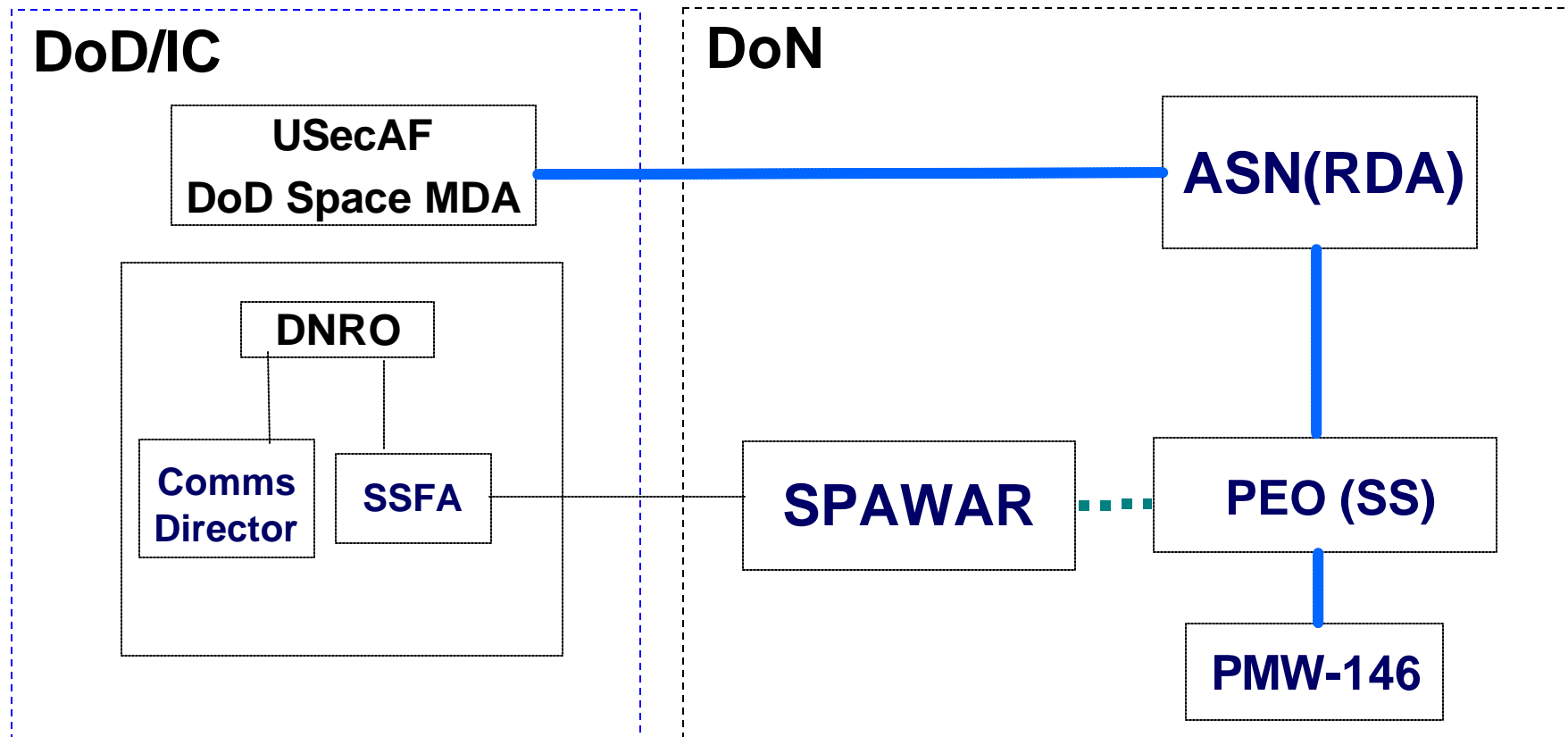# PEO Space Systems Responsibilities

- **Act as the central _acquisition authority_ for the procurement of Navy Space systems**
  - Acquisition oversight of UFO and MUOS SATCOM programs, and others as assigned
  - Coordinate Navy involvement in IC and DoD space system acquisitions
- **_Implement NSS 03-01_ policy for Navy space systems**
  - Navy Acquisition decision-making principal for space systems
  - Navy resource for Navy participation in IPA/ ICA processes
- **_Leverage White/ Black_ world program acquisitions to achieve optimized space "best practices"**
  - Enhanced cost estimating capability
  - Robust Space Cadre development
    - Improved Navy acquisition capability through experienced personnel
    - Improved technical knowledge
    - Expanded databases of space information
  - Technical Interchange Meetings
- **Actively _coordinate between space systems and related terminal procurements_ to optimize benefits to warfighter**
  - Coordination with PEO (C4I and Space) for terminal and related programs

PEO Space Systems
Chain of Command

DoD/IC

DoN

USecAF
DoD Space MDA

ASN(RDA)

DNRO

Comms
Director

SSFA

SPAWAR

PEO (SS)

PMW-146

·········· Command

▬▬▬▬ Acquisition Reporting Chain

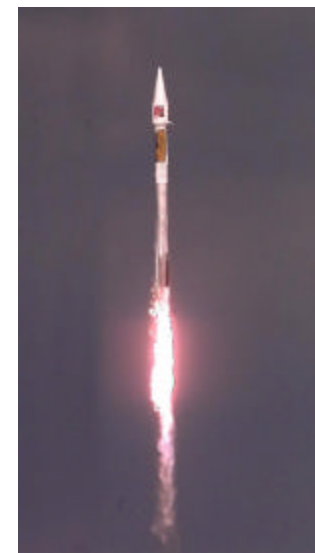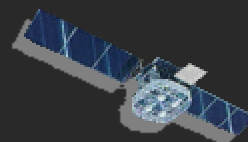▪ ▪ ▪ ▪ ▪ ▪ Support Agreement

PEO Space Systems Portfolio

- FLTSAT
  - FLTSAT 7 & 8
    - 30 UHF communications channels
    - 1 500 KHz Fleet Broadcast channel

- LEASAT
  - LEASAT 5
    - 17 UHF communications channels

- UFO
  - F2
    - UHF Payload
    - 39 UHF channels
    - Transmit antenna/Receive antenna
  - F4, F5, & F6
    - EHF Payload
    - 8 EC services
    - 14 SBA services
    - Spot beam antenna
    - EC horns
  - F7
    - Enhanced EHF Payload
    - 8 EC/SBA services or 32 SBA/EC service
  - F8, F9, & F10
    - Global Broadcast Service Payload
    - 4 x 24 Mbps transponders
    - 3 steerable transmit antennas
    - 2 receive antennas (1 steerable)
  - F11
    - Digital Payload
    - UHF Services
    - EHF Services

- MUOS
  - Future MILSATCOM narrowband system
  - Replaces the current UFO constellation

Programs Status

- Mobile User Objective System (MUOS)
  - LM is the prime partnering with GD and BSS
  - Current $3.22B contract (not including launch vehicles)
  - Wrapping up successful PD phase
- UHF Follow On (UFO)
  - Satellite constellation procurement completed
  - Currently 9 satellites on orbit
    - Recent loss of F3 last summer
  - RFI recently issued to assess potential for additional UHF satellite capability
    - Results under consideration
    - Reconfiguration of current constellation has addressed loss of F3

PEO SS Involvement in Navy/DoD Enterprise Efforts

- FORCEnet
  - Engaged with Fn/C4I Virtual SYSCOM
  - Coordinating development of Narrowband roadmap with SPAWAR to ensure integrated capability.

- Open Architecture
  - Space domain lead for OA enterprise
  - OA project planned for JTRS Synchronization

- National Security Space
  - Provided Navy acquisition position for TCA
  - Supporting Space Industrial Base Review for Navy to maintain critical aspects and gain efficiencies.

PEO SS Support of Industry

- Conferences & Symposiums
  - Support several space and communications oriented venues for awareness (I.e. MILCOM, NDIA, etc.)
  - Participate in panels and presentations
- Involved with local interest groups for space
  - California Space Authority
    - Coordinate Navy space interest topics with the larger Naval space community (I.e. NAVSOC, NRL)
  - Defense and Space Technology Consortium
    - Work with local industry to help transition new technology into programs of record (e.g. JIST)

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Significant Events

- **FORCEnet Engineering Conference**
  - **June inaugural conference in Norfolk attended by 1300 senior engineers**
    - No tennis shoes or pocket protectors
  - **Next conference "planned" 15-17 November in San Diego**
    - This the new conference for synchronizing Fn products across Navy and other Services—This is "the conference" to attend.

- **Approved FORCEnet Architecture Products:**
  - **AV-1, AV-2, TV-1, TV-2, OV-2 (v1.0), OV-4 (v1.0), OV-5 (v2.0)**
  - **Standards WG updates TV's**
    - Feeds VS which is providing voice of the Navy at DoD level
  - **Process established for architectural governance**
    - Board directed by NNWC and MCDCC
    - Approved products posted in DARS HTTPS:// DARS1.ARMY.MIL

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Significant Events[2]

- **Evolution of FORCEnet Implementation Baseline (FIBL) and FORCEnet Implementation Tool Suite (FITS)**
  - FIBL now aligned to specifically support FORCEnet Consolidated Compliance Checklist as a component of FITS
  - 15 Sept. successfully demonstrated FITS/FIBL Spiral 2, Phase 1 prototype to FORCEnet stakeholders (OPNAV, NNWC, DASNs, PEOs, SYSCOMs)

- **Composeable Testing Environment (CTE)**
  - Policy and CONOPS in development by SPAWAR 053
    - Part of DoD Roadmap for testing in the Joint Environment
    - Need to identify how industry participates
  - Other Related Developments to Leverage leading Fn Certification
    - OA & Fn Risk Reduction Experimentation
    - Naval Warfare Systems Certification Policy

Significant Events[3]

- **Human Systems Integration (HSI)**
  - HSI Program Manager Guide Volumes 1 & 2 approved by the Navy VS
  - HSI Implementation Guide in routing for VS approval

- **Experimentation**
  - 2 TW's planned for FY06 to synchronize with POM planning
  - JRAE transitioning products in Joint experimentation
    - JTLM, BFT, Numerous policy recommendations for interoperability
    - FY06 effort designated by JFCOM as Joint Battle Management C2 T&E Event
  - CWID is only standing venue for Coalition Interoperability
    - 70 technologies demo'd this year in CWID 05
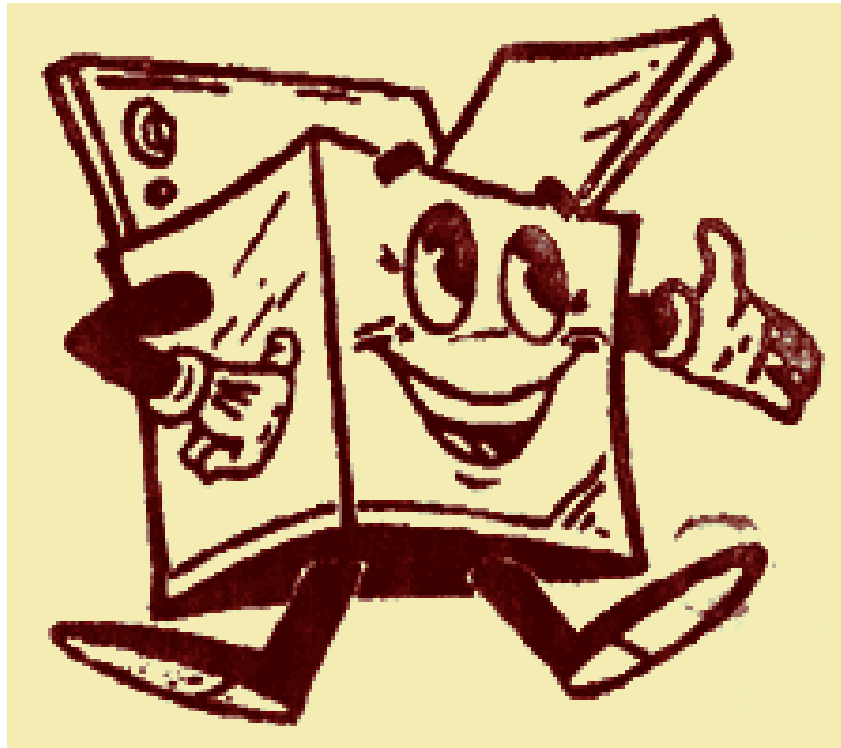   - SPAWAR selected/demo'd 8 of the top 10 technologies

Significant Events[4]

- **Assessments**
  - **In FY05 performed 2020 based studies showing how investments in sensors/networks provided greater value in winning the war than additional weapons/platform investments**
    - **Modeling, simulation and analyses for OPNAV N7**
  - **In FY06 anticipate extended Fn capabilities studies for winning MCO's and supporting GWOT.**
    - **Will support PEO by connecting tech roadmap with capabilities**

- **Technical Authority (first instantiation)**
  - **SPAWAR 05 given new IA role as certification authority**

- **Organizational changes**
  - **Kadane & Higbee gone, Bailey has arrived**
  - **Domain CHENGs roles increasing in importance**
    - **New position for SPACE Domain CHENG**
    - **Domain CHENGs are TDs in PMW 150 & PMW 160**

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LSI INITIATIVES

Customer	Description	Contracting POC	Stage and Way forward
PMW 150	C2 LSI	Ellen Polen Mark Schweer	•Industry Day 8/9/05 •RFI closed •Responses being reviewed •Est RFP Mar 06
PMW 160	C4I and Networks	Dave Ryan	•Draft PWS stage •Draft RFP est Nov 05 •Industry Day est Dec 05
PMW 790	Tactical Switching Program	Dave Ryan Fred Dini	•RFI closed •/Responses being reviewed •VPO being established •Est RFP TBD

SEAPORT INITIATIVES

- **24 Purchase Requests received**
- **18 Solicitations Issued**

    1 Task Order awarded a/o 21 Sept 05

- **Anticipate award of 18 TOs by 30 Sept 05**
- **More to follow. See NAVSEA Portal.**

VSYSCOM CONTRACTING

- A number of actions completed: e.g., agreement on FSC codes for hardware related services

- SEAPORT E (Expansion of SEAPORT)

- 8A Closeout Contract (SPAWAR)

- Current SPAWAR Initiative: Consolidated C4I Installs Contract

- Looking at Contracting COEs for Training, SBIRs, etc

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QUESTIONS/COMMENTS